



SEQUENCE LISTING

<110> Glimcher, Laurie H.
Szabo, Susanne, J.

<120> T-BET COMPOSITIONS AND METHODS OF USE THEREOF

<130> HUI-040CP

<140> US 10/008264

<141> 2001-12-03

<150> PCT/US00/15345

<151> 2000-06-01

<150> US 60/137085

<151> 1999-06-02

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<170> PatentIn Ver. 2.0

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<212> DNA

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cac cgc tac ttc tac ccg gag ccg ggc gcg cag gac gcg gac gag cgt	144
His Arg Tyr Phe Tyr Pro Glu Pro Gly Ala Gln Asp Ala Asp Glu Arg	
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cgc ggg ggc ggc agc ctg ggg tct ccc tac ccg ggg ggc gcc ttg gtg	192
Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val	
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ccc gcc ccg ccg agc cgc ttc ctt gga gcc tac gcc tac ccg ccg cga	240
Pro Ala Pro Pro Ser Arg Phe Leu Gly Ala Tyr Ala Tyr Pro Pro Arg	
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Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro	
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Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro	
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gcg gga ctg gag gtg tcg ggg aaa ctg agg gtc gcg ctc aac aac cac	432
Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His	
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ctg ttg tgg tcc aag ttt aat cag cac cag aca gag atg atc atc acc	480
Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr	
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Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val	
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gac cag cac cac tgg cgg tac cag agc ggc aag tgg gtg cag tgt gga	624
Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly	
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aag gcc gag ggc agc atg cca gga aac cgc ctg tac gtc cac ccg gac	672
Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp	
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Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn	
275 280 285	
acg cat atc ttt act ttc caa gaa acc cag ttc att gcc gtg act gcc	912
Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala	
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Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe	
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gcc aaa gga ttc cgg gag aac ttt gag tcc atg tac aca tct gtt gac	1008
Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp	
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acc agc atc ccc tcc ccg cct gga ccc aac tgt caa ttc ctt ggg gga	1056
Thr Ser Ile Pro Ser Pro Pro Gly Pro Asn Cys Gln Phe Leu Gly Gly	
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Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg	

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gca gtc agc atg aag cct gca ttc ttg ccc tct gcc cct ggg ccc acc Ala Val Ser Met Lys Pro Ala Phe Leu Pro Ser Ala Pro Gly Pro Thr 405 410 415			1248
atg tcc tac tac cga ggc cag gag gtc ctg gca cct gga gct ggc tgg Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp 420 425 430			1296
cct gtg gca ccc cag tac cct ccc aag atg ggc ccg gcc agc tgg ttc Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe 435 440 445			1344
cgc cct atg cgg act ctg ccc atg gaa ccc ggc cct gga ggc tca gag Arg Pro Met Arg Thr Leu Pro Met Glu Pro Gly Pro Gly Gly Ser Glu 450 455 460			1392
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gcc ccc atc cgg ccg gaa tcc agt gat tca gga ctg ggc gaa gga gac Ala Pro Ile Arg Pro Glu Ser Ser Asp Ser Gly Leu Gly Glu Gly Asp 485 490 495			1488
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Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val
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 Pro Ala Pro Pro Ser Arg Phe Leu Gly Ala Tyr Ala Tyr Pro Pro Arg
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 Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro
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 Ala Asp Ala Glu Gly Tyr Gln Pro Gly Glu Gly Tyr Ala Ala Pro Asp
 100 105 110
 Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro
 115 120 125
 Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His
 130 135 140
 Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr
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 Lys Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly
 165 170 175
 Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val
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 Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly
 195 200 205
 Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp
 210 215 220
 Ser Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly
 225 230 235 240
 Lys Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln
 245 250 255
 Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile
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 Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn
 275 280 285
 Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala
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 Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe
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 Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp
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 Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg
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Phe Tyr Pro Asp Leu Pro Gly Gln Ala Lys Asp Val Val Pro Gln Ala
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 Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp
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 Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe
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 Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile
 465 470 475 480
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 Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser
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 Pro Met Pro Ser Asp Glu Gly Arg Gly Pro Gly Ala Asp Gln Gln His
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 Arg Phe Phe Tyr Pro Glu Pro Gly Ala Gln Asp Pro Thr Asp Arg Arg
 35 40 45
 gca ggt agc agc ctg ggg acg ccc tac tct ggg ggc gcc ctg gtg cct 192
 Ala Gly Ser Ser Leu Gly Thr Pro Tyr Ser Gly Gly Ala Leu Val Pro
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 gcc gcg ccg ggt cgc ttc ctt gga tcc ttc gcc tac ccg ccc cgg gct 240

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Gly	Ala	Glu	Gly	Tyr 100	Pro	Pro	Val	Asp	Gly 105	Tyr	Pro	Ala	Pro	Asp	Pro 110	
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Gly	Leu	Glu	Val	Ser 130	Gly	Lys 135	Leu	Arg	Val	Ala	Leu	Ser	Asn	His	Leu 140	
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Glu	Pro	Thr	Ser	His 180	Tyr	Arg	Met	Phe 185	Val	Asp	Val	Val	Leu	Val	Asp 190	
cag	cac	cac	tgg	cgg	tac	cag	agc	ggc	aag	tgg	gtg	cag	tgt	gga	aag	624
Gln	His	His	Trp	Arg 195	Tyr	Gln	Ser 200	Gly	Lys	Trp	Val	Gln	Cys	Gly	Lys 205	
gca	gaa	ggc	agc	atg	cca	ggg	aac	cg	tta	tat	gtc	cac	cca	gac	tcc	672
Ala	Glu	Gly	Ser	Met 210	Pro	Gly 215	Asn	Arg	Leu	Tyr	Val	His	Pro	Asp	Ser 220	
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Ile	Val	Leu	Gln	Ser 260	Leu	His	Lys	Tyr 265	Gln	Pro	Arg	Leu	His	Ile	Val 270	
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Glu	Val	Asn	Asp	Gly 275	Glu	Pro	Glu	Ala	Ala 280	Cys	Ser	Ala	Ser	Asn	Thr 285	
cac	gtc	ttt	act	ttc	caa	gag	acc	cag	ttc	att	gca	gtg	act	gcc	tac	912
His	Val	Phe	Thr	Phe 290	Gln	Glu 295	Thr	Gln	Phe	Ile	Ala	Val	Thr	Ala	Tyr 300	
cag	aac	gca	gag	atc	act	cag	ctg	aaa	atc	gac	aac	aac	ccc	ttt	gcc	960
Gln	Asn	Ala	Glu	Ile	Thr	Gln	Leu	Lys	Ile	Asp	Asn	Asn	Pro	Phe	Ala	

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Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Ala Ser Val Asp Thr				
	325	330	335	
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Ser Val Pro Ser Pro Pro Gly Pro Asn Cys Gln Leu Leu Gly Gly Asp				
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Pro Phe Ser Pro Leu Leu Ser Asn Gln Tyr Pro Val Pro Ser Arg Phe				
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Tyr Pro Asp Leu Pro Gly Gln Pro Lys Asp Met Ile Ser Gln Pro Tyr				
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Trp Leu Gly Thr Pro Arg Glu His Ser Tyr Glu Ala Glu Phe Arg Ala				
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Val Ser Met Lys Pro Thr Leu Leu Pro Ser Ala Pro Gly Pro Thr Val				
	405	410	415	
ccc tac tac cgg ggc caa gac gtc ctg gcg cct gga gct ggt tgg ccc				1296
Pro Tyr Tyr Arg Gly Gln Asp Val Leu Ala Pro Gly Ala Gly Trp Pro				
	420	425	430	
gtg gcc cct caa tac ccg ccc aag atg agc cca gct ggc tgg ttc cgg				1344
Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg				
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Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro				
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Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg				
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Ile Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser Ser Pro Ala Gly Ala				
	500	505	510	
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Gln Val Ala Gly Phe Pro Gly Pro Gly Glu Phe Phe Pro Pro Pro Ala
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Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro Ala
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Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Ser Asn His Leu
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Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr Lys
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Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val Asp
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Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly Lys
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Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp Ser
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Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly Lys
 225          230          235          240

Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln Met
 245          250          255

Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile Val
 260          265          270

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His Val Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala Tyr
 290          295          300

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 Ser Val Pro Ser Pro Pro Gly Pro Asn Cys Gln Leu Leu Gly Gly Asp
 340 345 350
 Pro Phe Ser Pro Leu Leu Ser Asn Gln Tyr Pro Val Pro Ser Arg Phe
 355 360 365
 Tyr Pro Asp Leu Pro Gly Gln Pro Lys Asp Met Ile Ser Gln Pro Tyr
 370 375 380
 Trp Leu Gly Thr Pro Arg Glu His Ser Tyr Glu Ala Glu Phe Arg Ala
 385 390 395 400
 Val Ser Met Lys Pro Thr Leu Leu Pro Ser Ala Pro Gly Pro Thr Val
 405 410 415
 Pro Tyr Tyr Arg Gly Gln Asp Val Leu Ala Pro Gly Ala Gly Trp Pro
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 Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg
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 Pro Met Arg Thr Leu Pro Met Asp Pro Gly Leu Gly Ser Ser Glu Glu
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 Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro
 465 470 475 480
 Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg
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 Ile Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser Ser Pro Ala Gly Ala
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 Pro Ser Pro Phe Asp Lys Glu Thr Glu Gly Gln Phe Tyr Asn Tyr Phe
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 Pro Asn
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